

Igor Landais, Ph.D.

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Expertise

- Highly trained scientific professional with a record of achievement in cancer research.
- Expertise in the pre-clinical development of anticancer therapeutics.
- Proven record of establishing collaborations with clinical and non-clinical teams.
- Understanding of clinical research regulations.
- Recognized talent for communicating complex scientific information to both specialist and non-specialist audiences.
- Exceptional teaching skills.
- Team player with an open and cooperative attitude.
- Self-motivated with an ability to work independently.
- Strong record of reviewing, publishing and presenting scientific data.

Professional Experience

OREGON HEALTH AND SCIENCE UNIVERSITY, PORTLAND, OR.

Laboratory of Dr. Maureen E. Hoatlin, Ph.D.

2006-present

Research Assistant Professor

Development of a cell-free assay for screening of anticancer compounds that modulate the Fanconi anemia DNA repair pathway.

- Developed and implemented the screening technology on an 800-compound library.
- Collaborated with US and international chemists to screen libraries of curcumin analogs.
- Identified several hits with potential as lead chemicals for anticancer activity, following 2 tracks: cisplatin/MMC chemosensitizer; single agent for targeted therapy.
- Expanded the assay readout to allow multiplex screening of additional pathways.
- Filed one patent for the Xenopus cell-free assay technology.
- Published one article with cover figure in *International Journal of Cancer*.
- Supervised two junior lab members.

OREGON HEALTH AND SCIENCE UNIVERSITY, PORTLAND, OR.

Laboratory of Dr. Hua Lu, M.D., Ph.D.

2003-2006

Postdoctoral Fellow

Regulation of the stability of the transcription elongation factor SSRP1.

- Designed and launched a clinical study in collaboration with the OHSU Rheumatology Clinic to investigate SSRP1 fragments as early serum biomarkers in Systemic Lupus Erythematosus.
- Elucidated the 2-steps inactivation of SSRP1 during apoptosis.
- Developed 13 high-quality monoclonal antibodies against human SSRP1.
- Published 2 peer-reviewed articles.

INRA-CNRS-UNIVERSITE MONTPELLIER II, ST CHRISTOL LES ALES, FRANCE.

Laboratory of Dr. Martine Cerutti, Ph.D.

1998-2002

Graduate Student

Transcriptional study of the early steps of the AcMNPV baculovirus infection and analysis of a cDNA library belonging to its host, Spodoptera frugiperda.

- Identified a novel mechanism of transcription regulation during baculovirus infection.
- Initiated genomic analysis of *S. frugiperda* by generating and analyzing cDNA libraries (>20,000 ESTs) in an international collaborative environment.
- Published 6 peer-reviewed articles.
- Supervised two students.
- Reviewed several manuscripts for reputable scientific journals.
- Taught advanced molecular biology classes to INRA scientific staff.

LYCEE PIERRE DE FERMAT, TOULOUSE, FRANCE.

High School Teacher

1996-1997

- Taught biology courses (10th and 11th grades).

Education

Ph.D., INRA/CNRS/Universite Montpellier II, France.

1999-2002

M.S., INRA, Antibes, France.

1998

Agregation of Biology (France's highest teaching certification).

1996

Career development

Advanced training

- Lab2Market Workshop Intensive, Portland State University, OR. 2008
- Advanced Cancer Biology Course, Oregon Health and Science University, OR. 2007

Awards

- NIH-NRSA Cancer Biology training grant. 2006-2008
- Eli Lilly-AACR scholar-in-training award. 2007
- American Society of Virology travel award. 2001
- Ph.D. training grant, French Department of Research and Technology. 1999-2002

Patents

- Hoatlin M, Stone S, Sobeck A, Costanzo V, Gautier, J, **Landais, I.** Cell-free screening assay and methods of use. Publication number #WO 2007/067261 A1.

Peer-reviewing

- Journal of Microbiology, BMC Genomics. 2005-2007

Annex: Publications and Presentations

Publications

- **Landais I**, Sobeck A, Stone S, LaChapelle A, Hoatlin MEH (2009) A novel cell-free screen identifies a potent inhibitor of the Fanconi anemia pathway. *Int J Cancer* (in press).
- Li Y, Zeng SX, **Landais I**, Lu H (2007) Human SSRP1 has Spt16-dependent and independent roles in gene transcription. *J Biol Chem* 282: 6936-45.
- **Landais I**, Lee H, Lu H (2006) Coupling caspase cleavage and ubiquitin-proteasome-dependent degradation of SSRP1 during apoptosis. *Cell Death Differ* 13: 1866-78.
- **Landais I**, Vincent R, Bouton M, Devauchelle G, Duonor-Cerutti M, Ogliastro M (2006) Functional analysis of evolutionary conserved clustering of bZIP binding sites in the baculovirus homologous regions (hrs) suggests a cooperativity between host and viral transcription factors. *Virology* 344: 421-31.
- Serrano-Pinto V, **Landais I**, Ogliastro MH, Gutierrez-Ayala M, Mejia-Ruiz H, Villarreal-Colmenares H, Garcia-Gasca A, Vazquez-Boucard C (2004) Vitellogenin mRNA expression in *Cherax quadricarinatus* during secondary vitellogenic at first maturation females. *Mol Reprod Dev* 69: 17-21.
- **Landais I**, Ogliastro M, Mita K, Nohata J, Lopez-Ferber M, Duonor-Cerutti M, Shimada T, Fournier P, Devauchelle G (2003) Annotation pattern of ESTs from *Spodoptera frugiperda* Sf9 cells and analysis of the ribosomal protein genes reveal insect-specific features and unexpectedly low codon usage bias. *Bioinformatics* 19: 2343-50.
- Volkoff AN, Rocher J, d'Alencon E, Bouton M, **Landais I**, Quesada-Moraga E, Vey A, Fournier P, Mita K, Devauchelle G (2003) Characterization and transcriptional profiles of three *Spodoptera frugiperda* genes encoding cysteine-rich peptides. A new class of defensin-like genes from lepidopteran insects? *Gene* 319: 43-53.
- **Landais I**, Pommet J, Mita K, Nohata J, Gimenez S, Fournier P, Devauchelle G, Duonor-Cerutti M, Ogliastro M (2001) Characterization of the cDNA encoding the 90 kDa heat-shock protein in the Lepidoptera *Bombyx mori* and *Spodoptera frugiperda*. *Gene* 271: 223-31.
- **Landais I**, Chavigny P, Castagnone C, Pizzol J, Abad P, Vanlerberghe-Masutti F (2000) Characterization of a highly conserved satellite DNA from the parasitoid wasp *Trichogramma brassicae*. *Gene* 255: 65-73.

Selected presentations

- **Landais I**, Stone S, Sun S, Snyder JP, Hoatlin ME. Characterization of the curcumin analog EF24, a potent inhibitor of the Fanconi anemia pathway. Oral presentation, *Twentieth Annual Fanconi Anemia Research Fund Scientific Symposium*, October 2008, Eugene, USA.
- **Landais I**, Sobeck A, Stone S, LaChapelle A, Padhye S, Snyder JP, Hoatlin ME. A novel cell-free screen for drugs that modulate the human Fanconi/breast cancer susceptibility protein network. Poster, AACR-NCI-EORTC Molecular targets and Cancer Therapeutics International Conference, October 2007, San Francisco, USA.
- **Landais I**, Sobeck A, Stone S, LaChapelle A, Padhye S, Snyder JP, Hoatlin ME. A *Xenopus* cell-free assay for screening of compounds that modulate the Fanconi anemia pathway. Poster, *Nineteenth Annual Fanconi Anemia Research Fund Scientific Symposium*, October 2007, Chicago, USA.
- **Landais I**, Mita K, Nohata J, Gimenez S, Ogliastro M, Duonor-Cerutti M, Feyereisen R, Lopez-Ferber M, Devauchelle G, Fournier P. *Spodoptera frugiperda* gene expression analysis using EST. Poster, *Fifth International Workshop on Molecular Biology and Genetics of the Lepidoptera*, August 2001, Kolympari, Greece.
- **Landais I**, Pommet JM, Mita K, Nohata J, Gimenez S, Fournier P, Devauchelle G, Duonor-Cerutti M, Ogliastro M. Characterization of the cDNA encoding the 90 kDa heat-shock protein in the Lepidoptera *Bombyx mori* and *Spodoptera frugiperda*. Oral presentation, *Fifth International Workshop on Molecular Biology and Genetics of the Lepidoptera*, August 2001, Kolympari, Greece.
- **Landais I**, Vincent R, Robert L, Galibert L, Devauchelle G, Duonor-Cerutti M, Ogliastro M. Cooperativity between the baculovirus IE1 transcription factor and host CRE-like binding factors to activate hr5-dependent transcription. Oral presentation, *Annual Meeting of the American Society of Virology*, July 2001, Madison, USA.